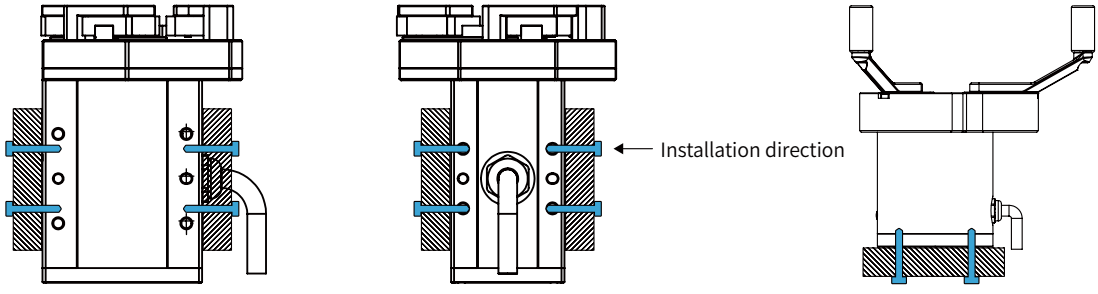
CG Series
Electric Centric Gripper

CGE-10-10
CGI-100-170
CGC-80-10

The CG series is a three-finger centric gripper independently developed by DH-Robotics. The three-finger gripping method can better cope with the grasping task of cylindrical workpieces. The CG series is available in a variety of models for a variety of scenarios, stroke and end devices.

Installation

1. Front and rear installation: use front and rear screw holes for installation
2. Side installation: use side screw holes for installation
3. Bottom installation: use bottom screw holes for installation



Product Features

● High Performance

Realize high-precision centering and grasping, the process structure meets the requirements of high rigidity, and the energy density exceeds that of similar products

● Long Lifetime

Continuous and stable work above 10 millions times without maintenance.

●Overload Protection

The high-performance servo motor can provide instantaneous overload protection

Application

Accurate and stable grasping of cylindrical workpieces in the fields of auto parts, automation equipment, precision machining and assembly, etc.

CGE-10-10

Electric Centric Gripper

Parameters

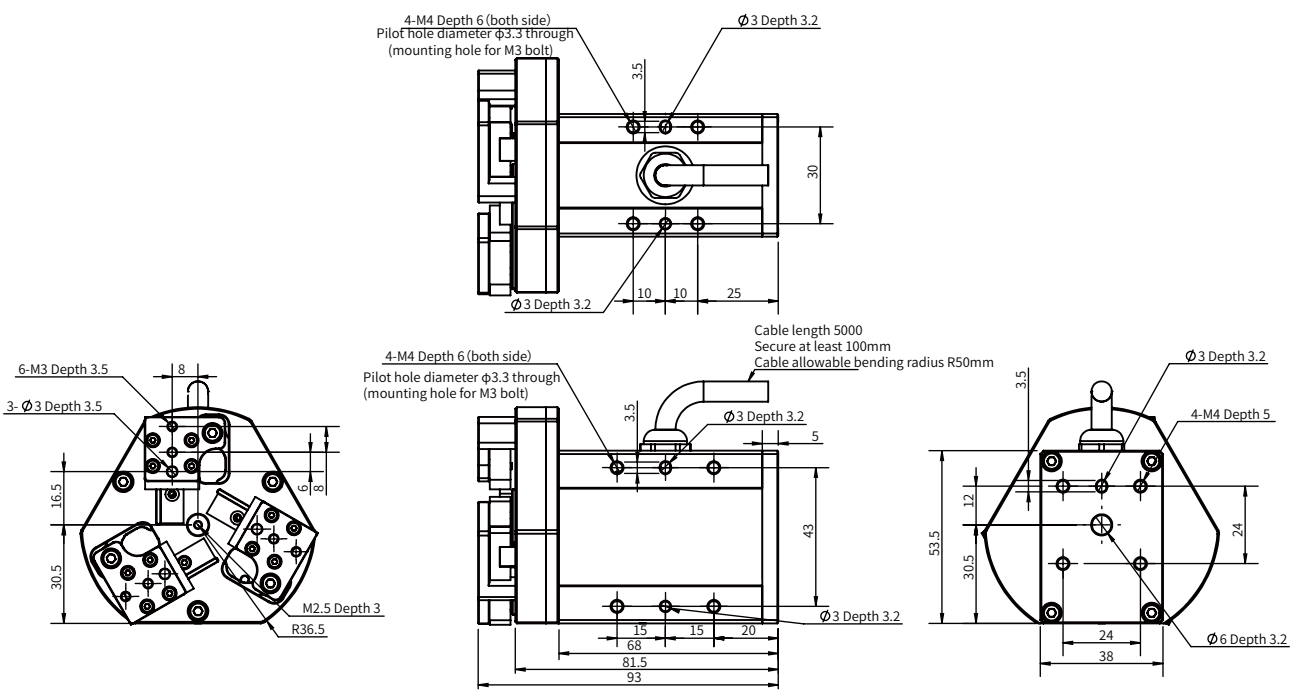
Product Parameter	
Gripping force (per jaw)	3~10 N
Stroke (per jaw)	10 mm
Recommended workpiece weight *	0.1 kg
Opening/Closing time	0.3 s/0.3 s
Repeat accuracy (position)	± 0.03 mm
Noise emission	< 40 dB
Weight	0.43 kg
Driving method	Precise planetary gears + Rack and pinion
Size	94 mm x 53.5 mm x 38 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	0.3 A
Peak current	0.6 A
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Self-locking Mechanism
●	●	●	●	●	○

Vertical Maximum Force	
Fz:	150 N
Allowable Moment	
Mx:	0.62 N·m
My:	0.62 N·m
Mz:	0.62 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Technical Drawings



CGI-100-170

Electric Centric Gripper

Parameters

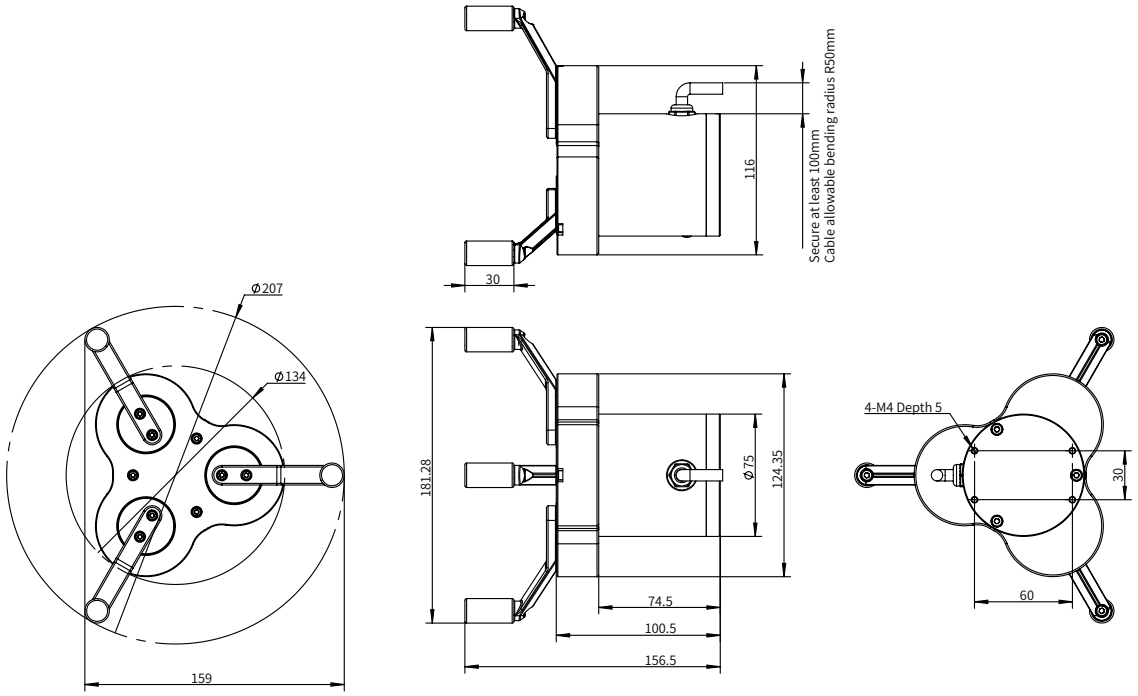
Product Parameter	
Gripping force (per jaw)	30~100 N
Recommended workpiece diameter (inward)	ϕ40~ϕ170 mm
Recommended workpiece weight *	1.5 kg
Opening/Closing time	0.5 s/0.5 s
Repeat accuracy (position)	± 0.03 mm
Noise emission	< 50 dB
Weight	1.5 kg
Driving method	Precise planetary gears + Rack and pinion
Size	156.5 mm x 124.35 mm x 116 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	0.4 A
Peak current	1 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Self-locking Mechanism
●	●	●	●	●	●○

This type of gripper is recommended to use the standard finger.
If you need to replace it in the application, please contact us for confirmation.

*It depends on the shape of the grasping object, the material and friction of the contact surface,
and the acceleration of the motion, If you have any questions, please contact us.

Technical Drawings



CGC-80-10

Electric Collaborative Centric Gripper

Parameters

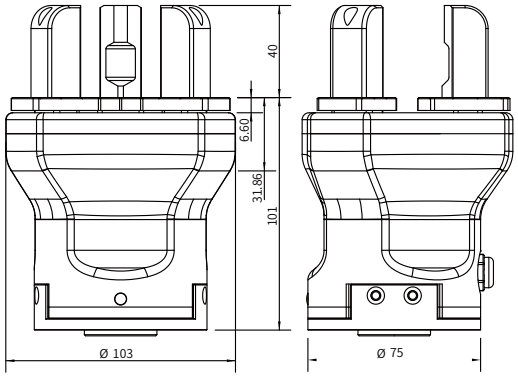
Product Parameter	
Gripping force (per jaw)	20~80 N
Stroke (per jaw)	10 mm
Recommended workpiece weight *	1.5 kg
Opening/Closing time	0.2 s/0.2 s
Repeat accuracy (position)	± 0.03 mm
Noise emission	< 50 dB
Weight	1.5 kg
Driving method	Precise planetary gears + Rack and pinion
Size	141 mm x 103 mm x 75 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	0.3 A
Peak current	1 A
IP class	IP 67
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

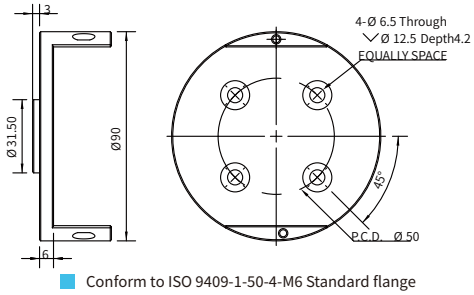
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism
●	●	●	●	●	●	●○

Vertical Maximum Force	
Fz:	200 N
Allowable Moment	
Mx:	2.5 N·m
My:	2 N·m
Mz:	3 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

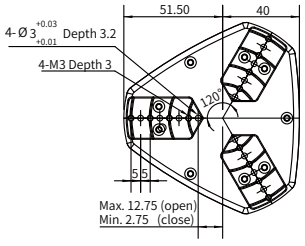
Technical Drawings





■ Conform to ISO 9409-1-50-4-M6 Standard flange

If you need to customize the flange, it is recommended to design according to the robot installation hole position, or contact us



■ Customize finger installation size